21 July 1970

WORK STATEMENT

1. GENERAL:

    a. The contractor is expected to develop a concept of operations
and an implementation plan and schedule for a distributed experimental
network of computers in the intelligence community for solving a variety
of problems of common concern. The plan is to be based on the assumptions
that:

    (1) The initial network will consist of at least three
         nodes, CIA, DIA and NSA with provision for expansion
         to include other agencies (e.g. FTD, NPIC, etc).

    (2) Common hardware and software will be available at
         each node in the network.

    (3) Each participating organization will provide qualified
         personnel to operate their system and to engage in
         problem solving activities.

    b. In addition this plan will take into account the current
planning of the COINS Project Management Office.

2. CONCEPTS:

    a. A user operating from a remote terminal in one agency should
be able to work directly, in a secure fashion with either his own system
or any one of the other participating systems in the network.

    b. A user operating from a remote terminal should be able to
operate in either an interactive or remote batch mode depending upon his
desires. For example a user should have the following kinds of
capabilities:

    (1) To interrogate and retrieve information from files in
         any participating system.

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(2) To remotely update or maintain files in any participating system and also a capability to submit batch updates.

(3) To use preprogrammed routines in any system.

(4) To remotely write and debug programs in two or more higher level languages (e.g. FORTRAN IV and COBOL). on any one of the systems and to store these programs for future use.

(5) To write and edit upper and lower case textual material (NOTE: Could be useful in writing inter-agency reports using a conference call technique).

(6) To share graphics

(7) To specify output to be delivered to one or more remote devices.

3. SPECIFIC TASK:

(a) (60%) Describes the type of data processing activities, data sources, data files and processes for three broad substantive intelligence areas of common concern to the participating agencies. The three substantive intelligence areas will be identified by the COINS project Manager in consultation with the Subsystem Managers. For each of these areas the contractor will:

(1) Describe current operations throughout the community, inter-organizational relationships, problems and costs associated with the current effort.

(2) Project improvements and payoffs to be derived by the community if the network is used in support of the effort.

(a) (20%) Prepare a concept of operations without specifying specific hardware except in generic terms. Idetify applications and describing capabilities to be available in the network.

(b) (20%) Prepare a general implementation plan and schedule:

(1) Identify and describe in detail the major tasks to be performed in each fiscal year starting in FY-71 thru FY-75. The following estimates will be provided for each task.

(a) Beginning and completion date

(b) Number man months of effort required by specialty (e.g. communications engineer, computer engineer, systems analyst, junior programmer, senior programmer, etc.)

(c) Dollar costs

(2) Prepare an implementation schedule integrating the tasks showing relationships between tasks according to time.

(a) Pert Chart

(b) Milestone Chart

(3) Prepare a detail break down of costs (a) manpower by specialty and (b) dollars both which should be related to time and tasks.

4. INFORMATION TO BE PROVIDED BY THE GOVERNMENT

(a) The COINS Project Manager will make available:

(1) The general plan of events,

(2) Results of studies to date

(3) Design specifications for future systems that have been tentively identified.

3.

b. The COINS Project Manager in consultation with the Subsyst[e] Managers will identify the three substantive intelligence areas to be considered by the contractors.

c. The participating agencies will make available the informat[ion] required by the contractors on the three substantive intelligence areas (e.g. briefing, discussions, reports, cost of effort, etc).

d. The COINS Project Management Office will provide management and direction of this effort.

5. ITEMS TO BE DELIVERED BY CONTRACTOR

1. By 30 September 1970 the contractor will deliver a concept of operations and an implementation plan and schedule containing at a minim[um] the items specified above.

2. In addition, he should be prepared to deliver several oral briefings.

SUBJECT: Concept of Operations and Implementation Plan and Schedule

OBJECTIVE: To provide the contractor ([   ]) with sufficient 25X1
information on three substantive intelligence areas during the next two
months (i.e. August and September) to enable them to develop a realistic
concept of operations with a related implementation plan and schedule.
The three areas selected should be ones which could have a potentiality
high-pay off if a cooperative network of computers were employed.

Substantive Intelligence Areas: The three substantive intelligence areas
to be examined are:

   1.   Sino-Soviet Strategic Weapon Systems
        (Offensive and Defensive)

   2.

   3.

25X1   Security Clearances: [   ] will be the contractor for this
study and they have personnel who have SI and/or TK clearances.

Access and Information Required: Contractors will require information
from CIA, DIA and NSA for each major activity related to the three sub-
stantive intelligence areas being examined.   For each of these activities
they will require following information:

   1.   Mission and Objectives

   2.   Discription of Operation

   3.   Flow of Input Information

        a.   Sources
        b.   Media
        c.   Volume
        d.   Frequency
        e.   Processes (manual and machine)
        f.   Reports and Files received and produced

   4.   Support Files

        a.   Manual and Machine Files
        b.   Formatted and Unformatted machine files
        c.   Micro-imagery Files
        d.   Photographs

   5.   ADP Support

        a.   Remote vs Off-Line batch processing
        b.   Computational
        c.   Information Retrieval

   6.   Communications Support

SECRET

7. <u>Gross Annual Cost of Effort</u>

     a. Manpower
     b. Dollar

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